

Kinetics MIM 420 Stainless Steel (Vacuum Heat Treat)

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Martensitic stainless steel. Very good strength, hardness, and wear resistance while offering some corrosion resistance. Magnetic. Less distortion typically with vacuum heat treat over that of oil quench. Often used for aerospace, automotive, cutlery, defense, power hand tools, sporting equipment industry, surgical instruments, and applications where high strength and hardness, and some corrosion resistance is required. Property values reported are typical for Kinetics' MIM products. Metal Injection Molding General Notes: Fine metal powders (generally

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kinetics-MIM-420-Stainless-Steel-Vacuum-Heat-Treat.php

Physical Properties	Metric	English	Comments
Density	7.61 g/cc	0.275 lb/in ³	Sintered

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1740 MPa	252000 psi	
Tensile Strength, Yield	1280 MPa	186000 psi	
Elongation at Break	3.5 %	3.5 %	in 1 inch
Reduction of Area	5.0 %	5.0 %	
Charpy Impact, Unnotched	82.7 J	61.0 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	0.15 - 0.40 %	0.15 - 0.40 %	
Chromium, Cr	12 - 14 %	12 - 14 %	
Iron, Fe	81.6 - 87.9 %	81.6 - 87.9 %	by difference
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Other	<= 2.0 %	<= 2.0 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

Descriptive Properties	Value	Comments
Hardness Rockwell R15N	83	
Surface Finish	40 Ra	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China